

Claims

- [1] 1. Microemulsion composition, essentially comprising metalaxyl-M as active ingredient and polyoxyalkylene tristyrylphenyl ether, and further comprising one or more emulsifier selected from the group consisting of calcium salt of alkylbenzene sulfonic acid and sodium salt dialkyl succinic acid; one or more aqueous solvents selected from the group consisting of lower alcohol, glycol, glycol ether, lactone, pyrrolidone, amine and amide; and water.
- [2] 2. The composition according to claim 1, wherein the polyoxyalkylene tristyrylphenyl ether is polyoxyethylene tristyrylphenyl ether or polyoxyethylene/polyoxypropylene tristyrylphenyl ether, wherein the average added mole number of ethyleneoxide is 10 to 40 moles in case of the polyoxyethylene tristyrylphenyl ether, and wherein the average added mole number of ethyleneoxide is 15 to 40 moles and the average added mole number of propyleneoxide is 1 to 10 moles, in case of polyoxyethylene/polyoxypropylene tristyrylphenyl ether.
- [3] 3. The composition according to claim 2, wherein the average added mole number of ethyleneoxide is 15 to 30 moles in case of the polyoxyethylene tristyrylphenyl ether, and wherein the average added mole number of ethyleneoxide is 15 to 35 moles and the average added mole number of propyleneoxide is 1 to 5 moles, in case of polyoxyethylene/polyoxypropylene tristyrylphenyl ether.
- [4] 4. The composition according to claim 3, wherein the average added mole number of ethyleneoxide is 17 to 30 moles in case of the polyoxyethylene tristyrylphenyl ether, and wherein the average added mole number of ethyleneoxide is 20 to 30 moles and the average added mole number of propyleneoxide is 1 to 3 moles, in case of polyoxyethylene/polyoxypropylene tristyrylphenyl ether.
- [5] 5. The composition according to claim 1, wherein the calcium salt of alkylbenzene sulfonic acid is calcium salt of dodecylbenzene sulfonic acid.
- [6] 6. The composition according to claim 1, wherein the sodium salt of dialkyl succinic acid is sodium salt of di(2-ethylhexyl) succinic acid.
- [7] 7. The composition according to claim 1, wherein the emulsifier is a mixture of polyoxyalkylene tristyrylphenyl ether and calcium salt of dodecylbenzene sulfonic acid.

- [8] 8. The composition according to claim 1, wherein the emulsifier is a mixture of polyoxyalkylene tristyrylphenyl ether and sodium salt of di(2-ethylhexyl) succinic acid.
- [9] 9. The composition according to claim 1, wherein the aqueous solvent is one or more selected from the group consisting of propyleneglycol, ethyleneglycol, diethyleneglycol, dipropyleneglycol, tripropyleneglycol, methanol, ethanol, isopropanol, normal propanol, tetrahydroperfuryl alcohol, N-methyl-2-pyrrolidone, γ -butyl lactone, propyleneglycol monomethylether, diethyleneglycol monobutyl ether, dipropyleneglycol monomethylether, triethyleneglycol monobutylether, triethanol amine, N,N-dimethylformamide, and N,N-dimethylacetamide.
- [10] 10. The composition according to claim 9, wherein the aqueous solvent is one or more selected from the group consisting of propyleneglycol, ethanol, isopropanol, and normal propanol.
- [11] 11. The composition according to claim 10, wherein the aqueous solvent is propyleneglycol.
- [12] 12. The composition according to claim 1, wherein the ratio of metalaxyl-M is 10 to 70 weight %.
- [13] 13. The composition according to claim 12, wherein the ratio of metalaxyl-M is 20 to 60 weight %.
- [14] 14. The composition according to claim 13, wherein the ratio of metalaxyl-M is 40 to 60 weight %.
- [15] 15. The composition according to claim 1, wherein the ratio of aqueous solvent is 5 to 50 weight %.
- [16] 16. The composition according to claim 15, wherein the ratio of aqueous solvent is 10 to 30 weight %.
- [17] 17. The composition according to claim 16, wherein the ratio of aqueous solvent is 10 to 20 weight %.
- [18] 18. The composition according to claim 1, wherein the ratio of emulsifier is 5 to 50 weight %.
- [19] 19. The composition according to claim 18, wherein the ratio of emulsifier is 10 to 30 weight %.
- [20] 20. The composition according to claim 19, wherein the ratio of emulsifier is 10 to 20 weight %.
- [21] 21. The composition according to claim 1, wherein the ratio of water is 5 to 50

weight %.

- [22] 22. The composition according to claim 21, wherein the ratio of water is 20 to 40 weight %.
- [23] 23. The composition according to claim 1, further comprising 0 to 0.2 weight % of aqueous pigment.
- [24] 24. Microemulsion composition obtained by diluting the composition according to claim 1 with water.
- [25] 25. Method for controlling plant disease, characterized in that the fungicidal composition according to claim 1 is applied to plant or habitat of pathogenic bacterium by diluting the composition with water in the biologically effective level.